



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

VOL. 66

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NO. 2

Electromagnetic Radiation is Spoiling my DNA, but All May Be Well (Done)

By Gary Skuse, KA1NJL - Vice President, RaRa

Truth be told, I don't care if excessive exposure to electromagnetic radiation, such as RF, is causing mutations in your DNA that may lead to a disease in you or your unborn kids. However, I do care about me and my kids so I have spent a fair amount of time learning what I can about the potential dangers of RF exposure. As a geneticist and a ham I have a keen interest in any negative effects electromagnetic radiation may have on humans.

For the general public, and the non-geneticists among us, the conflicting reports which appear regularly in the popular and professional press are confusing. This is compounded by the suspicion that cell phone companies are trying to downplay any harmful effects of RF for obvious commercial reasons. This confusion has raised public awareness and concern about the risks of RF exposure which in turn has prompted the FCC to publish policies on human exposure to RF energy that we are expected to understand. I would not call them light reading (pun intended, but admittedly it is weak). Interestingly, concerns about exposure to electromagnetic radiation range from electric blankets and overhead power lines to microwave ovens and UV light.

In addition to any genetic effects, another potential concern is tissue heating. To date most of the studies conducted suggest that this is a greater concern than DNA damage. Many half-baked ideas have come to light about interactions between electromagnetic radiation and human tissues, some are unsubstantiated but we must look at all of them in order to really understand the risks.

This month Gary Skuse, KA1NJL and Professor of Biological Sciences at RIT, will talk about the effects of RF and other forms of electromagnetic radiation on humans. He promises not to deliver a college lecture but rather will make this complex subject interesting, understandable and, whether appropriate or not, humorous. Please join us for the next RARA meeting on Friday October 4th at the usual location, the Henrietta Fire Company #1 located at 3129 East Henrietta Road near Lehigh Station Road.

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RARA Meeting October 4th, 7PM

Henrietta Fire Co. #1
3129 East Henrietta Rd. (15A)



The Prez Sez

By Bill Marinucci, WB2GHC
President, RaRa

It is hard to believe that another year has come to an end on the RaRa calendar for 2012-13, with the new club year beginning on October 1, 2013. The elections that were held at our September meeting yielded the following results... President: Bill Marinucci WB2GHC; Vice President: Dr. Gary Skuse KA1NJL; Secretary: Len Crellin KC2PCD; and Treasurer: Ken Hall W2KRH. The Directors are: Frank Schramm, WB2PYD; Bill Kasperkoski WB2SXY; Ross Mazzola KC2LOC; Jim DiTucci N2IXD; Forest Shick WA2MZG; Matt Smicinski KC2TNR, and Marisa Ashour KC2VMM. Marisa is President of K2GXT, the RIT Amateur Radio Club, and Matt is its Vice President. I am looking forward to working with these folks and ask you to give them your support as well.

Looking forward, plans are already underway for the 2014 Winter Cabin Party, Ham-O-Rama 2014, the Summer Picnic, the "Thrill before the Chill", and the RaRa Banquet. We are also committed to continue our ham radio license classes at RIT, which is growing in the number of students taking advantage on these classes. I would like to see a few RaRa Academies held if there are some volunteers to coordinate them. We also are going to once again have the RaRa Auction at our November meeting with those "wild and crazy auctioneers," Ed Gable K2MP, and Dick Goslee KG2I. These gentlemen do an awesome job and make for a fun night! There are many other ideas that will be presented to the Board for discussion and evaluation. I am very confident that this will be a great year for RaRa and its membership. Stay tuned for further developments.

We held our annual "Thrill before the Chill" on September 14th at the Damascus Shrine Center in Webster. The attendance was the best yet, and we doubled our contribution to the Shriners' Children's Hospitals from the previous year! My thanks to all of you who helped make this event a success. The goal next year is to at least double the number of attendees and contributions, and I am very confident that we will make this happen.

There are three club awards that will be presented at this year's RaRa Banquet on September 27th, the Club Service Award, the Community Service Award, and the Ham of the Year Award. The names/calls of the honorees will be published in the October RAG since this article is being written before the event.

Last year's Service to the Club Award was presented to Kevin Carey WB2QMY, for his outstanding service as Editor of the *RaRa RAG*... and what an outstanding job he did in this position. Our club's newsletter is one of the very finest ham radio club publications around, and was cited as such by the ARRL. Kevin is certainly one of the main reasons for this distinction, along with all of the contributors to the *RAG*. Kevin has decided to step down from this position because he has a "full plate" that continues to grow. I am saddened by this, but I fully understand why he has to step down, and he has his priorities right. This is his last publication as Editor. I wish to express, on behalf of the RaRa Board of Directors, our most heartfelt gratitude to Kevin for all he has done in service to RaRa. What an awesome job! Thank you Kevin, thank you. Replacing you will not be an easy task, and we wish you continued success in all that you do.

The interim plan before a successor is found for Kevin is that all submission of articles, etc., for the *RAG* now be sent directly to me, william.marinucci@gmail.com, and a small committee will do its best to edit the submissions make them ready for publication. I am asking that you submit your articles by the deadline of the 15th of each month. I also wish to acknowledge and thank Frank Schramm WB2PYD, who formats and emails the newsletter every month in a most timely fashion. Thanks Frank!

In closing, remember, this is *your* club, so step up and volunteer, and let's continue in making RaRa one of the very best ham radio clubs around. New hams, come join us, and get involved in all that RARA has to offer!

Calendar of Events

- Sept 30** [Memberships lapse](#)
[Renew today: Click here](#)
- Oct 4** [RaRa General Meeting](#)
7:00 PM - Henrietta FD #1
3129 E. Henrietta Rd
- Oct 9** [RaRa Board of Directors](#)
5:30 PM, RIT Engineering
Hall, Room 2110
- Oct 19** [RaRa VE Testing](#) sessions
10:00 AM, RIT Gleason
Hall, Room 3139



Rag-Chew

Editor's Thoughts & Comments
By Kevin Carey, WB2QMY
Editor@RochesterHam.org

As announced last month, this will be my final issue as editor of the *RARA Rag*. I want to sincerely thank all contributors, assistants, and those who simply sent notes of support over the past three years. You may not know how much these words of encouragement mean to an editor, but they are truly the lifeblood of any membership-based newsletter. They were especially meaningful as we tackled the challenges of going all-electronic in our delivery of your monthly news.

If I have any regret, it is that not every RARA member has explored the benefits that electronic publication has to offer. I hope that going forward any "holdouts" we have will explore this amazing medium. Even for those who do not own a computer (nor want one!), access to the latest *RARA Rag*—and dozens of past issues—is as close as your local library, where computers and assistance is always available. Do you know of a member not getting the e-version of the *Rag* on a regular basis? Why not extend a hand and show them how easy it is to do?

As my focus changes toward other priorities, I plan to stay as active in amateur radio as possible, and look forward to seeing you at future club gatherings.

73, and best DX!

Silent Key

Ralph J. Amdursky
W2DFS
Sept. 7, 2013

RaRa LOGO Items



Don't feel left out- get your
RaRa logo items today!

[\(Click here to shop now!\)](#)

Update: The *Thrill Before the Chill!*

By Len Crellin, KC2PCD

As I write this, I have just returned from our third annual Fall Fest and thought I would report on how things went. I arrived just before 7am and saw that a few early birds had already arrived and were awaiting directions. Two Canada Geese flew by low overhead going south and I suspect they were yelling down something about an early winter!

The vendors started to form a steady stream entering the grounds with anticipation of all the money they would be leaving with. The buyers would arrive around 8 am with their own eagerness to get going and find that bargain radio or rare tube that has eluded them for years! Soon the flea market area was abuzz with activity.

The promise of a sunny day never materialized, but a steady flow of hot coffee from the kitchen kept everyone supplied with that needed jolt and a portable hand warmer. Those who skipped breakfast were greeted with boxes of glazed donuts and two large sheets of breakfast pizzas. Those of you unfamiliar with these delicacies need to check them out. Think pizza dough covered with eggs and bacon or sausage. There were a lot of happy faces walking around with these culinary delights!

Later in the day, the grill was fired up and soon the smell of grilled Italian sausage, Zweigles hot dogs and hamburgers filled the air. It wasn't long before a few hungry souls dropped by to see what was cooking. As they walked around with their tasty treats the word spread fast that lunch was being served. Soon a crowd formed around the grill, and the welcome heat and cooking aromas were much appreciated.

Our two main cooks were Jim DiTucci, N2IXD and his son Joe, an officer in the Shriners. Jim also arranged for and picked up all the breakfast food, for which there are many happy tummies out there in Ham land. Thanks Jim and Joe for all you did behind the scenes and on the day to make this event happen.

Also, big thanks goes to our newest director Forest Schick WA2MZG, and veteran director Ross Mazzola KC2LOC for doing the bulk of collecting the entrance fees from our guests. I am pleased to announce that this year's event raised \$1049 which goes directly into the Shriner's Hospitals for Children fund. RARA did not make any money from this event. A BIG "thank you" to all of you who attended this year and made this event happen.

I was collecting money mostly at the food tables and noticed many of you told me to keep the change and put it in the fund. I was very touched to hear this from so many, and having heard stories about the great work the Shriners do for so many children, I was proud to be part of a group that cares so much too.

The one person who would not even want his name mentioned, but deserves the most credit for ensuring this event got off the ground and ran smoothly as possible was running around all day and could not be missed in his BRIGHT yellow shirt. That of course is our current RARA President Bill Marinucci WB2GHC. Bill was very busy meeting and greeting our guests and asking if they were enjoying the fest. Bill's passion for Ham Radio and ensuring RARA provides excellent opportunities to gather as a group at our picnic, winterfest, banquet, Hamfest and fall fest is unsurpassed and we are fortunate to have him for his second term as our leader.

We have already reserved the same location for the next Fall Fest, so save the date of Saturday September 13, 2014 and please plan to attend! Of course it can't be done without volunteers and the five of us were stretched a bit thin. Consider helping out next year, even for a couple hours and earn some member reward points! Contact Bill Marinucci at william.marinucci@gmail.com and he will be glad to put you on the list and remind you when we are near next year.

Well, I hope you enjoyed reliving the Fest through my eyes, but next year why not live it yourself? Oh great, the sun just came out. That's Rochester for you!



A good time was had by all at this year's "Thrill before the Chill" in Webster! Want to be on the mailing list for next year? See article for details.

Last call: Membership Renewal

By Lisa Schramm K2BGR
Membership Secretary

Memberships expire on September 30th 2013! Don't let yours expire; if you do, all your Membership Rewards points will be lost on October 1st.

Benefits of RaRa Membership:

- FREE** admission to the Rochester Hamfest
- FREE** admission to our exclusive member's only auction in November
- FREE** admission, food, and drink for you and your family at our Summer Picnic
- FREE** admission, food, and drink for you and your family at our Winter Cabin Party
- FREE** amateur radio licensing courses—upgrade or a use as a refresher
- FREE** amateur radio license testing
- FREE** classified advertising in our newsletter—the *RaRa Rag* with over 8,000 readers!
- 25% Discount** on our Fall Banquet (September 27th)—make reservations TODAY, just [click here](#).
- 50% Discount** on radios for new licensees – to get you on the air ASAP.

Monthly meetings—featuring an educational and entertaining presentation by guest speakers with refreshments and a great opportunity to meet your friends and make new ones!

Earn points for volunteering—redeemable towards dues, dinners, and other club items.

Renewal is fast and easy! Just point and click! No forms to fill out - Remit via PayPal / Credit Card or redeem your Membership Points. Just [click here](#) to renew. Not a member? Join now! Just [click here](#) to join. It's as easy as 1-2-3 and you too can be the recipient of all the benefits listed above.

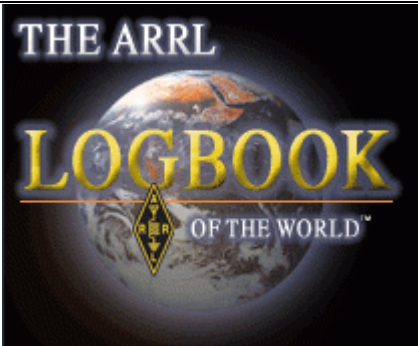
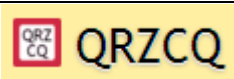
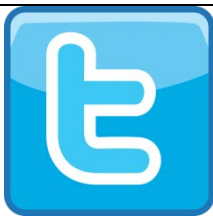
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Ham Tech: Logbook Uploading

By Duane Fregoe K2SI

As more and more hams are using electronic logbooks, the number of websites that allow you to upload your logbook are increasing. Most hams that have electronic logbooks are familiar with websites such as Logbook of the World and eQSL. The paid subscribers to QRZ.com can upload their logbooks. Users of Ham Radio Deluxe are able to upload their logs to HRDlog.net automatically and non-users of HRD can upload their logs manually. Below is a list of the many websites where I have uploaded my logbook. Check the sites out and see what else they have to offer.

		
http://www.arrl.org/logbook-of-the-world	http://www.eqsl.cc	http://www.hrdlog.net/
		
http://www.hamqth.com/	http://qrzcq.com/	https://secure.clublog.org/loginform.php
		
http://www.cqfriends.com/		http://www.qrz.com/
		
https://plus.google.com/118424200734775979541	https://twitter.com/rochesterham	https://www.facebook.com/rochesterham

RaRa Rags of the Past

By Ed Gable, K2MP
RaRa Historian

20 Years Ago, October, 1993

I need to start by saying thanks to Irv AF2K, for lending me his copy of this issue as my file turned up empty.

The meeting scheduled for October turned out to be a disaster, a well thought-out and planned disaster, however. The guest speaker was a man many of us knew from Civil-Defense drills and actual experience. Sandy Macaluso, Operation and Planning Officer of the Monroe County Office of Emergency Preparedness, gave an explanation of what his office consists of and how RaRa and RACES fits into the mix. RaRa President Keith Freeberg, N2BEL, wrote to welcome members to another season of RaRa meetings. He also told of the starting of another session of Code and Theory classes the last of which added 40 to 60 new RaRa members. Those new members, according to Keith, should be sought out and welcomed as you see them at the meetings.

Our neighbors to the East, the Radio Amateurs of Greater Syracuse (RAGS) wrote in to say they have a new hamfest location that no longer requires flea market folks to share places with cows and other farm animals. It was a good move as this author remembers. With regret it was announced that Aaron Goldenberg KB2AQG and W. Eidman Sr. WB2CTO, were listed as Silent Keys. From the Want Ads you could buy any or all of three transceivers from Al Wagner WB2BNJ. "Learn to Fly" was the advertising slogan of Bob Boyack, K2OXT, one of the then current commercial advertisers.

40 Years Ago, October, 1973

RaRa VP Joe Hood, K2YAH, reported on an exciting program for the evening. It was then that Rick Booth, WA2GCX, made the announcement that the new 19/79 Repeater WR2ABF, would be offering the use of their new Autopatch. This feature allowed any repeater user with touch-tone capability to make local phone calls, on a non-commercial basis, through the Repeater. Rick explained how the system worked, how to use it, and thrilled people on this new medium by on-air demonstrations.

President Bob Lauzon, WB2NSD, announced the start of this season's Code and Theory classes at a new location on the RIT campus at 50 West Main Street, Rochester. Bob also announced the formation of a Member's Relations Committee, Eddie Dunn (SK) W2ECH Chairman, with the responsibility to act as a liaison to allow easy access to the RaRa Board of Directors by members. Other committee members were; Linc Cundall (SK) W2QY, Ed Gable W2MPM, and Ernie Crewdson WA2FVG. Otto Bluntzer WB2RJB, writing for the Rochester VHF Group, told of their special meeting to celebrate their 25th year. There were no Want Ads in this issue, but Commercial Advertiser "Tire World" with Ray Roberts (SK) WA2QAU President, would be happy to have your business.

Hamfest Find: Classic SB-313 Receiver

By Ned Asam (W2NED) and Bill Hopkins (AA2YV)

July 20th was a rainy Saturday at this year's Batavia Hamfest, and not many showed up. Still, it was enjoyable. I (AA2YV) found a battered Buck Rogers space ship in a box of free toy stuff. This winter it will get a coat of yellow and red paint.

A seasoned ham had two WWII frequency meters for sale, each at about 10 bucks, and a Heathkit SB-313 solid state receiver. He had come down from about \$100 to \$60, but took \$50 for it. It had begun to rain a bit more. On the bench at home, and under good light, this radio was pristine, except for a little dent on the top front left of the enclosure. This was made mostly "unbent" by shaped wood forms and a C-clamp. This receiver is a bit rare, since it was the SWL version of Heath's SB-303. They didn't sell many. This particular radio had not really been used. The front plate and knobs were mint, and it had all three filters: AM; SSB; CW.

The radio had been cleanly soldered. I replaced the electrolytic caps on the rear power supply board, but left the AF electrolytics for the moment... The radio came to life immediately. The output voltage, bias and S-meter levels were easily set. There was a 60 cycle hum, however, with the AF gain turned down, yet inaudible at operating levels.

Now it was Ned's (W2NED) turn. After performing some minor repairs to reduce the bothersome AC hum, he would put the SB-313 through its paces, using relatively straightforward test equipment. So, how does this radio stack up against today's receivers?

The original 1971 QST product evaluation indicated that the SB-313 was in a league with the best receivers and possibly the best Heathkit had built to date. With scant documentation – the 303 schematic and some alignment figures – Ned set to work.

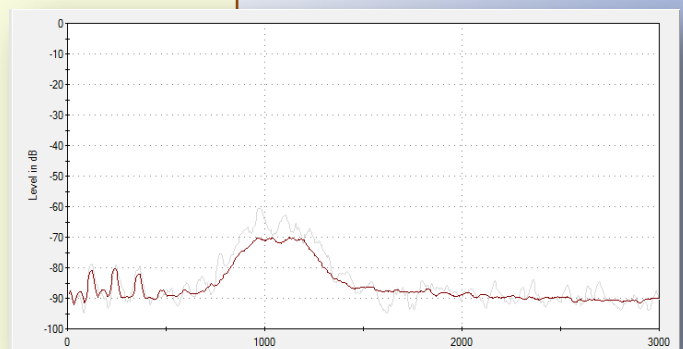
To begin with, I (W2NED) replaced the electrolytic caps on the audio board, re-soldered several grounding points, and cleaned the PC board connectors. This decreased the hum such that it was not noticeable using my Bose amplified, PC speakers. It was, however, still audible while listening with high quality headphones and it was still visible on the spectrum view of the audio from within Ham Radio Deluxe, HRD, on my PC.

Regardless of whether the hum can be further reduced and to reduce the effects of hum while making performance measurements, I decided to make the minimum detectable signal, MDS, measurements by using the HRD spectrum display, rather than by using an AC voltmeter.

In preparation for the MDS measurement, I set the RF gain to maximum, the RF attenuation to minimum and the AGC to off. Then, I selected the 400 Hz CW filter and adjusted the AF volume to about 50%.

The first graph shows the noise-only audio spectrum. The dark line is the average signal level. The 60 cycle hum, plus two harmonics, can be observed in the lower left at about 10 dB below the noise floor, which is indicated by the top of the envelope of the 400 Hz IF bandpass. Presently, this radio's bandpass center is set to about 1100 Hz. (When we get more specs, we can adjust the IF bandpass and CW side-tone closer to 800 Hz.) Note that the relative magnitude of the noise floor is -70db.

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To estimate the minimum detectable signal, I used the Elecraft XG3 to generate a calibrated 1uV, -107 dBm, signal at 7.04 MHz. The signal generator was connected to the radio's antenna input, and the receiver was tuned to center the signal in the CW bandpass. The second graph shows the resulting spectrum.

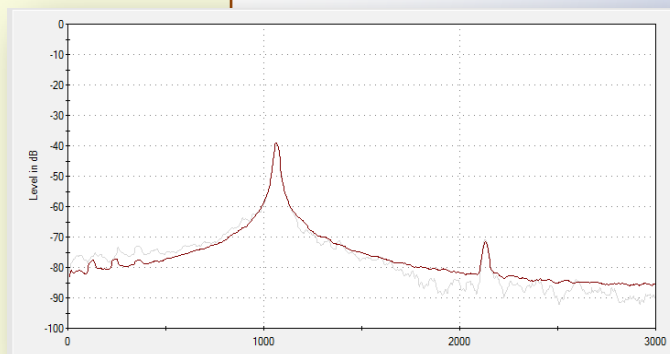
Notice that the signal-plus-noise peaks at -40 db. This represents a S+N/N ratio of 30 dB (70dB - 40dB). Since the input signal is -107 dBm, the minimum detectable signal is about 30 dB less than the reference input signal. This means the minimum detectable signal is about -137 dBm. So, from a sensitivity perspective, the SB-313 is every bit as good as the best receivers produced today.

I also noticed that the stability of the local oscillator is outstanding, given the technology at the time. I can jiggle the receiver on the desk and it stays right on frequency.

The receiver tunes CW, SSB and AM signals very nicely -- except for a slight delay in the tuning dial about 200 kHz up from band bottom, owing probably to an anomaly in the plastic molding part of the dial mechanism. I noticed that the USB and CW filters are aligned such that one can tune a CW signal with the 2.5 KHz SSB filter in USB mode, then switch to CW, and hear a very clear, narrow signal right in the bandpass with no retuning required.

While selectivity and adjacent channel rejection are quite good, they are not on a par with the better receivers of today. We did not pursue additional detailed measurements at this time.

In an attempt to further reduce the hum, we will check that AF board for hairline cracks and bad solder joints. We'll also replace two small coax runs. Finally, after we clean the wafer switches a bit more, this radio will be a "keeper."



Wanted: Citizen's Radio Callbook

Seeking a copy of this 1960s directory of Citizen's radio operators in the Rochester area (title may differ slightly from that shown). Not to be confused with 1920s-30s broadcast radio magazine of the same name. This smaller comb-bound directory included advertisements for Rochester-area businesses, such as Don & Bob's, Vic & Irv's and other service establishments. To be used as reference for a writing project chronicling early citizen's radio history and culture. Also interested in other 11m printed material such as old QSL cards, club newsletters, vintage photos, logs, etc. If you can help, please contact Kevin Carey WB2QMY at wb2qmy@arrl.net.

It's Pumpkin Patrol Time!

By Brad Allen KB2CHY

As September comes to a close, I realize Halloween is fast approaching and it is pumpkin patrol time once again. This annual operation places operators at area Thruway bridges to watch for and report suspicious activity. I have already sent the first email out to all participants of last year's patrol. If I missed you in the email, I will be resending it after I see who has signed up at the RARA meetings. By the time you see this, only October's meeting remains. If you wish to become a part of this important activity, please email me at <mailto:ballen@frontiernet.net> and PLEASE use the following in the subject line with no quotes: "PUMPKIN PATROL" and yes in Capital letters. This will make your email go direct to a special folder and it will catch my attention.

In the email that you send to me I need the following information: Your full name and mailing address, your Callsign, license plate number, Email address and phone contact number. None of this information is shared outside of me and the NYS Police for ID purposes for them and other departments, for example the Sheriff's Department. If you have any questions about this activity, please do contact me. My phone numbers are as follows: Cell phone 216-5066, Home numbers 247-0251, 247-3724, 247-5351. Emails: <mailto:ballen@frontiernet.net> or kb2chy@frontiernet.net. I will be at the October meeting as I am the guy who runs the sound system at the corner table. Please feel free to come and chat with me, but please during break or before/after meeting. If I look busy, I probably am, so be patient and wait till I am done with what I am doing.

Please sign up on the RARA website <http://www.rochesterham.org> or at the meeting on a signup sheet that will be provided. This helps with numbers and participation. My goal is to have all bridges covered, giving past workers priority to the same bridge as in previous years, as well as having goodie patrol covered and manned by mid-October.

What's GOODIE Patrol you ask? This is probably one of the most important tasks of the evening. Halloween can be cold, rainy, snowy or fairly pleasant. The job of the goody patrol is to split up and visit all of those on the bridges and bring drink, goodies and most importantly conversation to a somewhat lonely operator. Items typically provided are cider, coffee, hot chocolate (which was preferred last year over coffee), cookies, some candy, and apples all freshly purchased each evening at Tops in Henrietta. Some donations of cash to provide this are very much appreciated to help out in the cost. I hope some new people get involved as this event is a great way to get your feet wet with public service.

Lastly, the equipment that is needed is a mobile radio or a handheld capable of reaching the 146.880 repeater. Handheld radios may not be enough for a solid signal unless you're in the Henrietta area. I do suggest that you check your signal to the repeater beforehand. A simple test of what the repeater hears can be made as follows: Simply state your callsign and enter 700* from your tone pad, release the mic, and wait for response from repeater saying "Ready." At this point, key up again stating your call and the word "TESTING" and release your PTT. The repeater will play back what it heard. Please be sure your radio has 110.9 Hz PL active. If there are any questions, please see me for a demo at the RARA meeting.



The "head" of Pumpkin Patrol:
KB2CHY

Monroe County ARES / RACES News

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend. The next ARES Meeting will be held on: October 24, 2013, at 7:00 PM.

Meetings are held at the Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607. (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

ARES NET: Monroe County ARES/RACES meets on the air every Thursday of the month at 9:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountyemcomm.org

NBEMS: Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through 2013.

Editor's Note:

Free press is available for your club! We welcome brief updates and meeting notices from all area ham clubs. Just send your input to editor@rochesterham.org. When preparing your article, please remember to keep it short, and assume that readers know nothing about your club. The article should be focused toward non-members, and not your own current members... that's what your newsletter is for! We hope all area clubs will take advantage of this opportunity to interest new members in joining their ranks.

73, -Kevin



The Amateur's Code

Originally written by Paul M. Segal, W9EEA (1928)

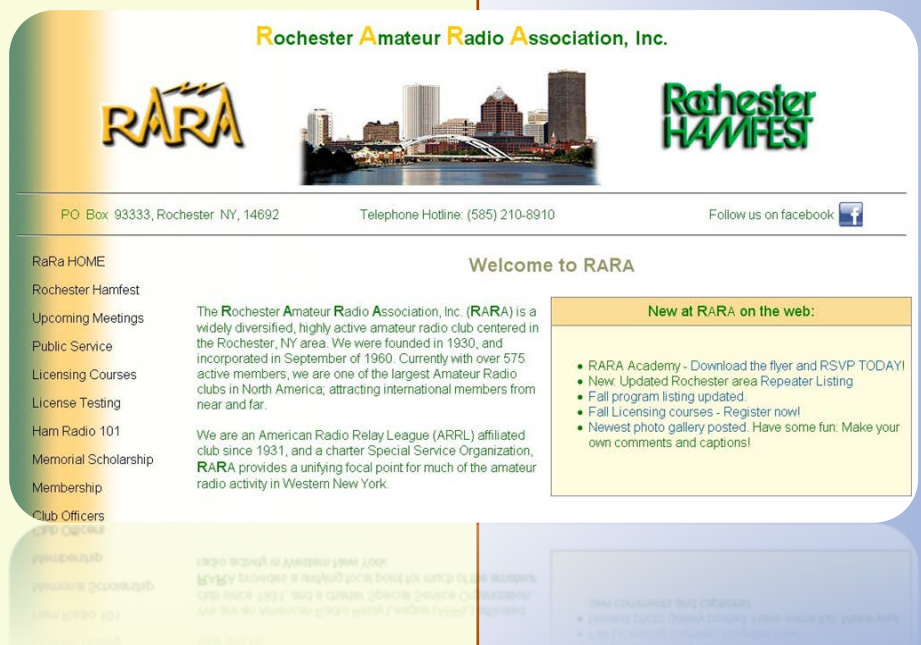
The Radio Amateur is:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community

Visit the RARA Website!

Did you know that your club's website (www.rochesterham.org) offers these features and more?

- ✓ Photos of meetings & events (you might be in there!)
- ✓ Info on upcoming meetings/programs
- ✓ Rochester Hamfest information!
- ✓ Online membership & renewal
- ✓ Track and redeem your Reward points
- ✓ Public service info & sign-up
- ✓ VE testing info
- ✓ Back issues of the *Rag* in PDF
- ✓ Officer contact info
- ✓ List of past presidents (how many do you remember?)
- ✓ Online membership directory
- ✓ Order RARA logo products (hats, shirts, and mugs)
- ✓ Useful Internet links
- ✓ Ham Radio 101—tons of tutorial info, plus net & repeater listings



THE RARA MARKET PLACE

Your commercial ad could be here! The RARA Rag can help spread the word on your business at very reasonable rates. Contact us for details at editor@rochesterham.org.



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